

RUGGED AND READY WITH PMC

AIM has launched two variants of its PMC modules – the AMCE1553-x and AMCE429-x – and both are conduction-cooled PMC cards with low power consumption for rugged, embedded applications. The cards are qualified to ANSI/VITA 47 for vibration, shock, humidity, altitude and Class V3 Conduction Cooled/Class V2 for air cooled applications. AMCE cards provide conduction cooling, rear I/O and extended temperature range from -40°C to +85°C. Conformal coating is optional.

Onboard flash memory allows boot-up autonomously after power-up, so they are prepared for fast operational modes such as with the MIL-STD-1760. The DMA engine is optimized for bus transfers and low PCI utilization for real-time applications.

An onboard IRIG-B analog time decoder is included with sinusoidal output and free-wheeling mode for time-tag synchronization.

The AMCE1553-x has up to four dual redundant MIL-STD-1553 channels with eight Open/Ground Avionics Level (+35V) Discrete I/O signals plus Trigger I/O. Single-function variants of the cards are also available.



The AMCE429-x modules handle up to 32 fully programmable (Tx/Rx) ARINC429 channels with a maximum of eight Open/Ground Avionics Level (+35V) Discrete Inputs and eight Open/Ground Avionics Level (+35V) Discrete Output signals in addition to Trigger I/O.

An API programming interface is provided along with 32/64-bit operating system specific drivers for Windows 7/8/10, Linux and VxWorks.

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AIRBORNE HIGH-SPEED STREAMING SYSTEM



ASTREC-4 is a rugged, sealed camera controller that supports up to four H-EM high-speed streaming cameras. The unit is equipped with extensive non-volatile memory capacity for recording hours of high-speed events. The controller's cameras can record events during a complete mission in high speed, for later playback in slow motion and in-depth quantitative and qualitative analyses.

Recordings providing full coverage – particularly in rotary wing aircraft, where it provides data for analysis that has not yet been possible. Once the system returns, the storage bay can be removed for analysis in the lab. This allows for a fast turnaround time of the test vehicle.

Typical users are manufacturers of aircraft, and test ranges for rotary and fixed wing aircrafts. The ASTREC-4 streaming system also fits applications for land-based tests. The four cameras generate a data rate of up to 3,000fps per camera directly into the non-volatile storage of the controller. Through an HD-SDI output, a live view is available to see the image data stream while recording in remote places, or have it connected to a telemetry link for ground station view. For synchronization of the camera, the built-in IRIG-B 122 receiver generates time stamps of every frame. Comprehensive Imaging Studio V4 software enables subsequent data analysis, playing back, and conversion of sequences into common movie formats. ASTREC-4 is tested and certified according to EMI 461 / MIL-810 and DO-160. \\

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NEW A350 COOLING TEST STAND

Low outgassing accelerometers and cables can withstand exposure to the high vacuum level of a space environment, which often causes contaminants to be pulled out of accelerometers and cables. These contaminants from outgassing condense onto nearby components and potentially reduce their performance. PCB manufactures welded, hermetically sealed accelerometers and cables that use materials that conform to NASA guidelines to ensure low gassing. These low outgassing accelerometers and cables can be safely cycled through thermal vacuum chambers during the instrumentation phase of satellite assembly. These accelerometers are ideal for subsequent vibration testing and permanent mounting on the satellite without the risk of releasing contaminants.

PCB's new Model TLD356M131 is a low outgassing, hermetically sealed ICP triaxial accelerometer. It features a low thermal



coefficient from its quartz sensing element. It is ideal for environmental stress screening and HALT/HASS applications. TLD356M131 is rated for continuous cold storage at -190°C (-310°F) so it can remain on the satellite in space. \\

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PCB PIEZOTRONICS

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